

NPIC/TDS/D-854-67
26 May 1967

MEMORANDUM FOR THE RECORD

SUBJECT : Visit to [REDACTED]
Contracts [REDACTED]

REFERENCES: a. PAR-243 Prototype Briefing Print Enlarger (BPE)
b. PAR-245 High Magnification Lens Set, for BPE
c. Joint Procurement of Seven BPE's under Contract
[REDACTED]

1. On 15-17 May 1967 a visit was made to [REDACTED] for the purpose of a joint review of progress on the prototype BPE; a joint preliminary inspection prior to delivery of the prototype; and for consideration of joint procurement of spare parts and high magnification lens set.

3. The first day was devoted to discussions on the following items:

a. Responsibility for acceptance testing of the seven BPE's under contract [REDACTED] Acceptance at the [REDACTED] plant will be made jointly by the contract monitor and the liaison representative. Where tests at delivery destination are in agreement with those made at [REDACTED], acceptance will be made only by the liaison representative. In applying performance ratings based on paragraph 3 of Specification No. 469-33B, dated 15 March 1967, the average of several readings will be used to reduce the human element effect. Should tests result in any need for manufacturer vs customer negotiation, [REDACTED] will be informed.

Declass Review by NGA.

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b. Arrangements for obtaining security clearance for [] personnel involved in installation and evaluation of equipment at destinations: These arrangements will be by direct contact between [] and the agency concerned. [] will furnish [] names and offices of pertinent security officers. Arrangements for inspection of the delivery site, prior to delivery of printer, will be by direct contact between the parties concerned.

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c. Joint procurement of maintenance parts and method of funding: NPIC will procure one set of maintenance parts based on support of two printers, funding under [] DIA will procure one set for one printer using surplus funds under [] TO #4. USN and USAF will each procure three sets of parts based on supporting each printer separately. Funding will be by use of surplus money under [] TO #4. Based on an estimated cost of [] per printer, each agency representative was informed of the amount of advanced funds still uncommitted:

[]

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d. Joint procurement of high magnification lens sets: In all probability two additional lens sets will be procured after the prototype set is tested; one for NPIC under [] and one for DIA under [] The estimated cost of these sets is

[]

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e. Procurement of additional printers: Although no firm figures can be derived until information is available from use experience, it now appears that both NPIC and DIA will be procuring one production printer each in the not too distant future. [] is recommending that the BPE be substituted for the 10-20-40 printer on four orders they have received for that printer. Mr. [] will be furnished a copy of any quotation made on X number of printers.

f. Operation and maintenance manuals: As indicated in the Memorandum for Record, "NPIC/TDS/D-813-67 of 20 April 1967" ten copies of the preliminary manual will be delivered with the Prototype Printer, one of which will be furnished to DIA and 3 each to USN and USAF for review and comment. Rough Draft copies of the proposed manual were available for perusal during this visit. Since there was no maintenance or equipment assembly section in the draft manual the question was raised, will this information be furnished, and in what form? Two additional sections will be provided covering operator maintenance and technical maintenance. There will also be a supplement to the manual covering the high magnification lenses, seven copies of which will be furnished NPIC for forwarding to DIA, USN, and

USAF for use as reference material. Wiring schematics and assembly drawings will be supplied with each printer. Also, one set of full size manufacturers drawings will be furnished with each printer. [] has requested that any comment on the preliminary printer manual be furnished them not later than 1 September 1967.

4. Inspection of the prototype printer. Although this visit to [] was labeled pre-delivery acceptance inspection of the prototype, the inspection could not be classed as an official acceptance because [] had not yet completed their engineering inspection and tests. On 16 May 1967 an operational type inspection was made of the prototype printer by representatives of NPIC, DIA, USN, and USAF. At the conclusion of this inspection the following questions were raised and resolved as follows:

a. The mounting for the release of the manual film alignment knob is in such a position as to possibly cause film damage. This was removed and will be relocated in a safe place.

b. The protruding heads of four screws that held an access plate in place were considered a possible film damage hazard. The screws were recessed, eliminating this possibility.

c. The free end of the easel lead screw has a tendency to whip when moving the easel to the short conjugate distance. Although it does not effect the operation of the printer, [] engineers will see if they can eliminate the whipping effect.

d. The optical flat aperture plates can be damaged by forceful insertion of the objective lens. As it would be rather difficult to make this "fail-safe", no action will be taken on this matter pending the obtaining of some use experience.

e. While inspecting the printer it was observed that there were no covers over the vertical transport pulleys. This could be a source of injury to the operator. A cover will be provided to cover these pulleys and their belts.

f. At this point [] discussed a group of items on which assembly and installation was not completed.

(1) A better light seal will be provided on the lamp house cover to eliminate the present light leak.

(2) A light baffle will be provided for the Meter Photometer to prevent stray light from effecting the photometric reading.

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(3) The [] Quantalog has a hum which will be corrected. This item will also be repainted to match the color of the printer.

(4) An attenuator reference light source will be provided to calibrate the Photometer.

(5) A means will be provided to readily remove the indexing fluid capillary brushes without the use of tools. New brushes are on order which will provide a better wiping surface and probably prevent fluid beading on the lower film edge.

(6) A cover will be provided for the "Deecitrak" drives to protect them from damage.

(7) Holes will be provided in the legs of the printer for inserting lifting rods for installation.

(8) All printers except the prototype will be provided with cannon type plugs for disconnecting the electrical console from the printer.

(9) Approximately one gallon of indexing fluid (tertachloroethylene) will be provided with each printer.

5. It is intended that this visit to [] will be the last of the joint liaison meetings. However, members of NPIC will again visit [] to complete the pre-delivery inspection when [] tests have been completed. It is estimated that delivery of the prototype printer will be about 15 June.

6. [] will submit through contracting channels ROM proposals, including costs, for maintenance parts and high magnification lens sets.

7. [] DDR&E, USAF will soon replace [] as Headquarters USAF contact on this project.

[]

Development Staff, TDS

Distribution:

- Original - Route & File
- 1 - USN
- 1 - USAF
- 1 - DIA
- 2 - NPIC/TDS/DS

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DEPARTMENT OF THE AIR FORCE
AIR FORCE AVIONICS LABORATORY (AFSC)
WRIGHT-PATTERSON AIR FORCE BASE, OHIO 45433



AVRP

23 May 1967

Briefing Print Enlarger, Contract

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1. The following information is forwarded per your request:

a. Offutt AFB

(1) Contact:

(a)

DISD
Offutt AFB, Nebr 68113

(b) Telephone:

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(2) Shipping Address:

5th Rec Tech Wing
Bldg 301D
Attn: OLC Photo Laboratory
Offutt AFB, Nebr 68113

(3) Clearance - Special clearance required.

Send to the following address:

SAC (DISD)
Offutt AFB, Nebr 68113

The following information is required:

Purpose of visit, when arriving, and type of clearance.

Note: Original furnished to on 7 June 1967.

CRB.

b. Beale AFB

(1) Contact:

(a)

9th Rec Tech Sqdn
Beale AFB, Calif 95903

(2) Shipping Address:

9th Rec Tech Sqdn
Bldg 2145
Attn: Maj Rogers
Beale AFB, Calif 95903

(3) Clearance - Special clearance required.

Send to the following address:

9th SRW, SSO
Attn: 9th DCI
Beale AFB, Calif 95903

The following information is required:

Purpose of visit, when arriving, and type of clearance.

c. ACIC

(1) Contact:

(a)

ACIC (ACDMT)
2nd and Arsenal Streets
St Louis, Mo 63118

(2) Shipping Address:

ACIC


Attn: Mr. Gordon Stine, ACDM
2nd and Arsenal Streets
St Louis, Mo 63118

(3) Clearance - Secret

Send to the following address:

Security Office
ACIC
2nd and Arsenal Streets
St Louis, Mo 63118

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Photographic Branch
Reconnaissance Division

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17 May 1967

BRIEFING PRINT ENLARGER (BPE) []

The BPE is a fluid gate enlarger with a horizontal optical axis system designed to expose high quality black and white and color prints up to 40 x 40 inches with continuously variable magnifications from 3 X to 60 X (another effort is underway to provide additional lenses 60 X to 150 X). A series of briefings on the BPE throughout the community sponsored by NPIC aroused great interest in the device. Through coordination of the project by the Committee on Photographic Exploitation, requests by the community for the joint purchase of seven copies of the prototype were made on a priority basis, rather than to wait for production scheduling at a loss of almost two years of time. NPIC handled the joint procurement and retains the technical monitoring responsibilities.

25X1 The BPE cost [] to develop to the successful breadboard stage.
 25X1 The prototype will cost [] (this does not include the lens assemblies
 25X1 since these will be removed from the "breadboard" for prototype use). (The
 25X1 lens assemblies originally cost [] Seven additional copies of
 25X1 the prototype have been ordered by the community at a price per unit
 25X1 estimated at [] including the lens assemblies. Because of the
 25X1 present high degree of success of the design and fabrication of the
 25X1 prototype, as it progresses, this price on the additional copies was
 reduced to [] each!

Summation:

Navy	3 BPE's
Air Force	3 BPE's
DIA	1 BPE

Prototype costs (including lenses) []

Price of copy []

The BPE is considered to be a "breakthrough" in design of an enlarger.

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